



Substitute for form 1449A/PTO		<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Application Number	10/603,573
		Filing Date	June 24, 2003
		First Named Inventor	Tai, Yu-Chong
		Art Unit	1753
		Examiner Name	Unassigned
Sheet	1	of	2
		Attorney Docket Number	020859-002410US

U.S. PATENT DOCUMENTS+

FOREIGN PATENT DOCUMENTS

**Examiner
Signature**

Date Considered

12/5/06

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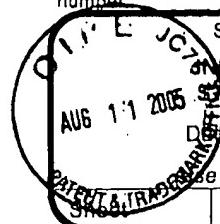
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T ²				
LR	AB	HARRIS, Shrinking the LC Landscape, Analytical Chemistry, February 1, 2003, pp. 64-69.		
↓	AC	High Performance Liquid Chromatography (HPLC): A Users Guide, http://www.pharm.uky.edu/ASRG/HPLC.hplcmtry.html , printed 6/19/03.		

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		Group Art Unit	1753
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		Attorney Docket Number	049411-0248

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (/ known)			
UR	B1	09/442,843		Tai et al.	11-18-1999	
	B2	2003-0008192	A1	Tai et al.	01-09-2003	
	B3	2003-0228411	A1	Tai et al.	12-11-2003	
	B4	2004-0237657	A1	Tai et al.	12-02-2004	
	B5	2005-0051489	A1	Tai et al.	03-10-2005	
	B6	4,402,817		Maget	09-06-1983	
	B7	4,687,423		Maget et al.	08-18-1987	
	B8	5,994,696		Tai et al.	11-30-1999	
	B9	6,162,367		Tai et al.	12-19-2000	
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	B11	6,436,229	B2	Tai et al.	08-20-2002	
	B12	6,520,753	B1	Grosjean et al.	02-18-2003	
✓	B13	6,709,604	B2	Tai et al.	03-23-2004	

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UR	B14	BÖHM, et al., "A closed-loop controlled electrochemically actuated micro-dosing system," J. Micromech., Microeng. Vol. 10, pp. 498-504, (2000).	
	B15	CAMERON et al., "Electrolytic actuators: Alternative, high performance, material-based devices," PNSA, Vol. 99, No. 12, pp. 7827-7831, (June 11, 2002).	
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JR	B18	DASGUPTA et al., "Electroosmosis: A Reliable Fluid Propulsion System for Flow Injection Analysis," Analytical Chemistry, Vol. 66, No. 11, pp. 1792-1798, (June 1, 1994).			T ²
	B19	HARRIS, et al., "Shrinking the LC Landscape", Analytical Chemistry, pp. 65A-69A (Feb. 1, 2003).			
	B20	KÄMPER et al., "A Self-Filling Low-Cost Membrane Micropump," International conference on Micro Electro Mechanical Systems, pp. 432-437, (January 1998).			
	B21	LAURELL et al., "Miniaturization is mandatory unraveling the human proteome," Proteomics, Vol. 2, pp. 345-351, (2002).			
	B22	LAZAR et al., "Multiple Open-Channel Electroosmotic Pumping System for Microfluidic Sample Handling," Analytical Chemistry, Vol. 74, No. 24, pp. 6259-6268, (December 15, 2002).			
	B23	LEE et al., "Solvent Compatibility of Poly(Dimethylsiloxane)-Based Microfluidic Devices," Analytical Chemistry, Vol. 75, No. 23, pp. 6544-6554, (December 1, 2003).			
	B24	LEE et al., "Fabrication and in vitro test of a microsyringe," Sensors and Actuators 83, pp. 17-23, (2000).			
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	B27	MUNYAN et al., "Electrically actuated, pressure-driven microfluidic pumps," Lab on a Chip, Vol. 3, pp. 217-220, (2003).			
	B28	NEAGU et al., "An electrochemical active valve," Electrochimica Acta, Vol. 42, No. 20-22, pp. 3367-3373, (1997).			
	B29	NEAGU et al., "An Electrochemical Microactuator: Principle and First Results," Journal of Microelectromechanical Systems, Vol. 5, No. 1, pp. 2-9			
	B30	NGUYEN et al., "MEMS - Micropumps: A Review," Transactions of the ASME, Vol. 124, pp. 384-392, (June 2002).			
	B31	PARK et al., "A Piezoelectric Micropump Using Resonance Drive with High Power Density," JSME International Journal, Series C, Vol. 45, No. 2, pp. 502-509, (2002)			
	B32	PAUL et al., "Electrokinetic Generation of High Pressures Using Porous Microstructures," Micro Total Analysis Systems, pp. 49-52, (October 1998).			

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UR	B33	REICHMUTH et al., "Increasing the performance of high-pressure, high-efficiency electrokinetic micropumps using zwitterionic solute additives," Sensors and Actuators B 92, pp. 37-43, (2003).				
	B34	REYES et al., "Micro Total Analysis Systems. 1. Introduction, Theory, and Technology," Analytical Chemistry, Vol. 74, No. 12, pp. 2623-2636, (June 15, 2002).				
	B35	SCHABMUELLER et al., "Self-aligning gas/liquid micropump," Journal of Micromechanics and Microengineering, Vol. 12, pp. 420-424, (2002).				
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	B37	SHIH et al., "Surface Micromachined and Integrated Capacitive Sensors for Microfluidic Applications," Transducers, pp. 388-391, (2003).				
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	B39	SUZUKI et al., "A reversible electrochemical nanosyringe pump and some consideration to realize low-power consumption," Sensors and Actuators B 86, pp. 242-250, (2002).				
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	B42	WU et al., "MEMS flow sensors for nano-fluidic applications," Sensors and Actuators A 89, pp. 152-158, (2001).				
	B43	XIE et al., "An Electrochemical Pumping System for On-Chip Gradient Generation," Analytical Chemistry, Vol. 76, No. 13, pp. 3756-3763, (July 1, 2004).				
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